Programme for renewable sources of energy

3491. DR. BAPU KALDATE: Will the Minister of POWER AND NON-CONVENTIONAL ENERGY SOURCES be pleased to state:

(a) whether Government have any programme for renewable sources of energy;

(b) if so, what are the details thereof; and

(c) what progress has been made by Indian Renewable Energy Development Agency for the last three years?

THE MINISTER OF STATE OF THE MINISTRY OF POWER AND NON-CONVENTIONAL ENERGY SOURCES (SHRI KALP NATH RAI): (a) and (b) The Department of Non-Conventional Energy Sources has been implementing a comprehensive programme of research, development and demonstration in the field of new and renewable sources of energy, such as, Solar Thermal, Solar Photovoltaic, Wind Energy, Mini-Micro Hydel, Biomass, Biogas, Improved Chulha, Urjagram etc. The status of achievements made for various types of non-conventional energy systems and devices, is given in Statement T. *(See* below)

The Government proposes to continue and further expand the various activities in the field during 8th Five Year Plan period. Provisions of the 8th Five year Plan are being considered for finalisation.

(c) The progress made by Indian Renewable Energy Development Agency Ltd. (IREDA), established in 1987 to develop and promote technologies pertaining to New and Renewable Sources of Energy during the last three years is given in Statement II. *(See* below):

Statement-I

Status of progress made for various types of non-conventional energy systems & devices

S. No.	Programme	Units	Cumulative Achievement upto 31.12.91
1.	National Project on Biogas Development (family size biogas plants)	Nos. in Lakh	14.90
2.	Community/Institutional Biogas Plants	Nos.	750
3.	National Programme on Improved Chulhas	Nos. in lakh	113.05
4.	Solar Thermal Energy Systems	Coll. area in sq. mts. (In. '000)	190
5.	Solar Cookers	(Nos. In '000)	201
6.	Villages provided with photovoltaic street lights	Nos.	8050
7.	Photovoltaic water Pumps	Nos.	1181
8.	Photovoltaic Power units	KWP	601.2
9.	Photovoltaic Community lights/TV and community facilities	Nos.	938
10.	Photovoltaic Domestic lighting units	Nos.	5050
11.	Wind Pumps	Nos.	2756
12.	Wind Farms	MW	39
13.	Mini-micro Hydro	MW	79.35
14.	Urjagram Energy Surveys	Nos.	1385
15.	Urjagram Projects	Nos.	153
16.	Biomass Energy Plantations	Hectares	17165
17.	Biomass Gasifiers	Nos.	760

Statement—I

StaluS of progress made for various types of non-conventional energy systems & devices

S. No.	Programme	Units	Cumulative Achievement upto 31.12.91
18.	Biomass Stirling Engines	Nos.	100

Statement—II

Performance of IREDA during last three years

	1988-89	1989-90	1990-91
A. RESOURCES			
Equity Capital Allocation released during the year (Rs. lakhs)	250.00	325.00	—
Borrowing from Market (Rs. lakhs)	—	—	2500.00
Grant-in-aid received from the Govt. of the Netherlands during the year (Rs. lakhs)	466.60	302.90	—
B. SANCTIONS			
No. of Projects	20	31	55
Loan amount (Rs. lakhs)	416.56	582.87	2629.35
C. DISBURSEMENTS			
Nos. of Projects	20	28	40
Amount (Rs. lakhs)	465.75	491.59	822.92
D. RECOVERY (% of Recoveries to total dues)	100%	94.5%	92.6%
E. PROFIT BEFORE TAX (Rs. lakhs)	47.69	79.70	124.39

दिल्ली विद्युत प्रदाय संस्थान का कार्यकरण

3492. **श्री महेन्द्र सिंह लाठर:** क्या **विद्युत और गैर-पारम्परिक ऊर्जा स्रोत** मंत्री यह बताने की कृपा करेंगे कि:

(क) दिल्ली विद्युत प्रदाय संस्थान में लगातार घाटे बढ़ते जा रहे हैं;

(ख) क्या यह भी सच है कि इस संस्थान में बिजली के पारेषण और वितरण में नुकसान भी बढ़ रहा है;

(ग) यदि हां, तो इस संस्थान में वर्ष 1985 से बढ़ते हुए घाटे का वर्षवार ब्यौरा क्या है और सरकार ने उसके घाटों को कम करने तथा बिजली के पारेषण और वितरण में होने वाले नुकसान को कम करने के लिए क्या कार्यवाही की है और इसके क्या परिणाम निकले हैं; और

(घ) दिल्ली में चालू वर्ष के दौरान बिजली की अनुमानित आवश्यकता कितनी है और इसका कुल उत्पादन कितना है?

विद्युत और गैर-पारम्परिक ऊर्जा स्रोत मंत्रालय के राज्य मंत्री (श्री कल्पनाथ राय): (क) से (ग)